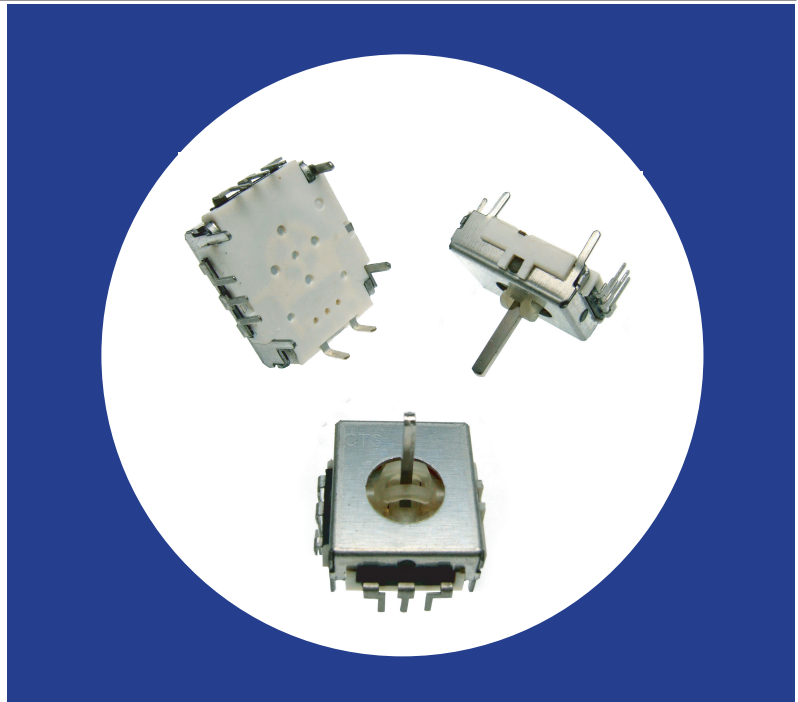


### Two Axis, Ministick Controller With Optional Momentary Switch

#### Features

- Compact Size: 20x18x6mm (.79"x.71"x.24")
- Long Life 1 Million Cycles
- Optional momentary switch is operational at all rotations
- Sturdy metal case with convenient mounting tabs
- RoHS compliant



Pat. No: US 6,654,005 . Taiwan: 176676. Pat. Pending in Japan & China

### Electrical and Mechanical Specifications

#### Potentiometer 1 & 2

##### Resistance Range

10 K ohms through 200 K ohms

##### Resistance Tolerance

Standard:  $\pm 30\%$

Special:  $\pm 10\%$  and  $\pm 20\%$  available

##### Insulation Resistance

100 Megaohms @ 250 VDC

##### Operation Torque

180  $\pm 50$  gf-cm (2.5  $\pm 0.7$  in-oz)

##### Power Rating

0.0125 watt @ 50°C, derated to load @ 85°C

##### Maximum Operating Voltage

50 VAC or 5 VDC maximum

##### Angle of Rotation

54° maximum

##### Life

Standard: 1,000,000 cycles

Special: Consult CTS

##### RoHS Compliance

Compliant with European Union RoHS Directive

#### Available Switch

##### Type

Momentary

##### Contact Resistance

100 milliohms max

##### Maximum Contact Resistance

200 milliohms max after 500,000 cycles  
switching 5mA @ 5VDC

##### Dielectric Strength

250 VAC 50/60 Hz for 1 minute

##### Insulation Resistance

100 Megaohms min @ 100 VDC

##### Operational Force

1,200 $\pm$ 260 g

##### Power Rating

5 VDC, 5 mA maximum

##### Travel

0.5  $\begin{matrix} +0.5 \\ -0.4 \end{matrix}$  mm

##### Switch Life

500,000 cycles

# Electrical and Mechanical Specifications

## Potentiometer 1 & 2

**Operating Temperature**  
Operating: -10°C to +70°C

**Mounting Information**  
PC Terminals

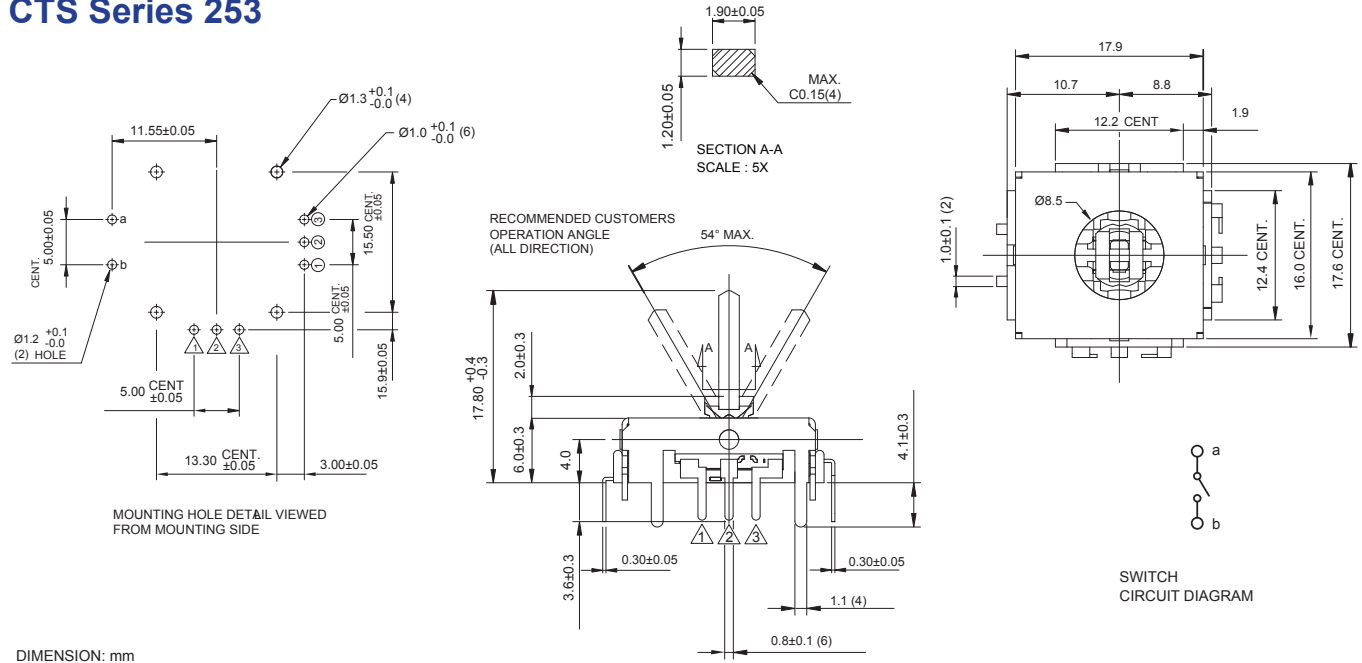
## Soldering Conditions

Wave - up to 5 seconds at 260°C  
No Solder or flux on component side of board

## Caution

Please use extra mechanism to restrict rotational angle at less than 54 degree or there will be bumpy or rugged rotational feeling

## CTS Series 253



## Ordering Information

